

Customer No. 28880

Confirmation No. 7569

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**Complete if Known****INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 4

Application Number	10/075,073
Filing Date	February 13, 2002
First Named Inventor	William G. Harter, et al
Art Unit	1624
Examiner Name	Tamthom N. Truong
Attorney Docket Number	A0000428-01-CFP

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>wrong citation</i>		US-2002/051558 A1	10-17-2002	Andrianjara, et al	
TNT	✓	US-2002/0156069 A1	10-24-2002	Picard, et al	514/223.2
	✓	US-2002/0193377 A1	12-19-2002	Andrianjara, et al	514/248
	✓	US-2003/0078276 A1	04-24-2003	Andrianjara, et al	514/266.1
	✓	US-2003/0130278 A1	07-10-2003	Gaudilliere, et al	514/228.5
	✓	US-2003/0144274 A1	07-31-2003	Bunker, et al	514/223.2
	✓	US-2003/0216402 A1	11-20-2003	Gaudilliere, et al	514/251
	✓	US-2003/0220355 A1	11-27-2003	Gaudilliere, et al	514/301
	✓	US-2004/0006077 A1	01-08-2004	Gaudilliere, et al	514/227.8
	✓	US-2004/0034054 A1	02-19-2004	Michael W. Wilson	514/301
	✓	US-2004/0038973 A1	02-26-2004	Nahra, et al	514/243
	✓	US-2004/0038994 A1	02-26-2004	Michael W. Wilson	514/260.1
	✓	US-2004/0039012 A1	02-26-2004	Michael W. Wilson	514/301
	✓	US-2004/0043991 A1	03-04-2004	Picard, et al	514/222.8
	✓	US-2004/0063673 A1	04-01-2004	Adam R. Johnson	514/114
	✓	US-2004/0142950 A1	07-22-2004	Bunker, et al	514/266.2
	✓	US-6,656,932 B2	12-02-2003	Picard, et al	
	✓	US-6,747,147 B1	06-08-2004	Jack Li	
TNT	✓	US-10/071,032	02-08-2002	Dyer, et al	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
TNT	✓	WO02064080 (A2,A3)	08-22-2002	Warner-Lambert Co.		
	✓	WO02064572 A1	08-22-2002	Warner-Lambert Co.		
	✓	WO02064578 A1	08-22-2002	Warner-Lambert Co.		
	✓	WO02064595 A1	08-22-2002	Warner-Lambert Co.		
	✓	WO02064598 A1	08-22-2002	Warner-Lambert Co.		
TNT	✓	WO02064599 A1	08-22-2002	Warner-Lambert Co.		

Examiner  
SignatureDate  
Considered

12/5/04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Confirmation No. 7569

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	2	of	4
-------	---	----	---

**Complete if Known**

Application Number	10/075,073
Filing Date	February 13, 2002
First Named Inventor	William G. Harter, et al
Art Unit	1624
Examiner Name	Tamthom N. Truong
Attorney Docket Number	A0000428-01-CFP

## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>2</sup> Number <sup>4</sup> Kind Code <sup>6</sup> (if known)				
TNT	✓	WO03032999 A1 *	04-24-2003	Warner-Lambert Co.		
	✓	WO03033478 A1 *	04-24-2003	Warner-Lambert Co.		
	✓	WO03076417 A2 *	09-18-2003	Warner-Lambert Co.		
	✓	WO04000322 A1 *	12-31-2003	Warner-Lambert Co.		
	✓	WO04014365 A1 *	02-19-2004	Warner-Lambert Co.		
TNT	✓	WO04014375 (A2, A3) *	02-19-2004	Warner-Lambert Co.		

Examiner Signature	<i>Ulm</i>	Date Considered	12/5/04
-----------------------	------------	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**

- \* Consider the corresponding US Pregnant Pub. & Patents.

Confirmation No. 7569

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	3
-------	---

3

Q

4

Attorney Docket Number

A0000428-01-CFP

**Complete if Known**

Application Number	10/075.073
--------------------	------------

10/075.073
------------

Filing Date	February 13, 2002
-------------	-------------------

February 13, 2002

First Named Inventor	William G. Harter, et al
----------------------	--------------------------

William G. Harter, et al

Art Unit	1624
----------	------

1624

Examiner Name	Tamthom N. Truong
---------------	-------------------

Tamthom N. Truong
-------------------

Attorney Docket Number	A0000428-01-CFP
------------------------	-----------------

A0000428-01-CFP

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>8</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
TNT	✓	WO04014384 A2 *	02-19-2004	Warner-Lambert Co.		
I	✓	WO04014908 A1 *	02-19-2004	Warner-Lambert Co.		
I	✓	WO04014916 A1 *	02-19-2004	Warner-Lambert Co.		
TNT	✓	WO04014923 A1 *	02-19-2004	Warner-Lambert Co.		

Examiner Signature		Date Considered	12/5/04
-----------------------	---	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**

\* Consider the corresponding US Progrant Pub. & Patents.

Customer No. 28880

Confirmation No. 7569

PTO/SB/088 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**Complete if Known****INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**


(Use as many sheets as necessary)

Sheet 4 of 4

Application Number	10/075,073
Filing Date	February 13, 2004
First Named Inventor	William G. Harter, et al
Art Unit	1624
Examiner Name	Tamthom N. Truong
Attorney Docket Number	A0000428-01-CFP

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
TNT	✓	Office Action Dated 06/16/2003 for USSN: 10/264,764 (PC20536A), McKenzie.	
	✓	Lovejoy, et al, "Crystal structures of MMP-1 and -13 reveal the structural basis for selectivity of collagenase inhibitors", Nature Structural Biol., Vol. 6, No. 3, March 1999, pp.217-221.	
	✓	Moy, et al, "High-resolution Solution Structure of the Catalytic Fragment of human Collagenase-3 (MMP-13) Complexed with a Hydroxamic Acid Inhibitor", J. Mol. Biol., Vol. 302, 2000, pp. 671-689.	
	✓	Neuhold et al, "Postnatal expression in hyaline cartilage of constitutively active human collagenase-3 (MMP-13) induces osteoarthritis in mice", J. Clin. Invest., Vol. 107, No. 1, January 2001, pp.35-44.	
	✓	Dahlberg, et al, "Selective Enhancement of Collagenase-Mediated Cleavage of Resident Type-II Collagen in Cultured Osteoarthritic Cartilage and Arrest with a Synthetic Inhibitor that Spares Collagenase 1 (Matrix Metalloproteinase 1)", Arthritis & Rheumatism, Vol. 43, No. 3, March 2000, pp.673-682.	
	✓	Billinghurst, et al, "Comparison of the Degradation of Type II Collagen and Proteoglycan in Nasal and Articular Cartilages induced by Interleukin-1 and the Selective Inhibition of Type II Collagen Cleavage by Collagenase", Arthritis & Rheumatism, Vol. 43, No. 3, March 2000, pp.664-672.	
	✓	Billinghurst, et al, "Enhanced Cleavage of Type II Collagen by Collagenase in Osteoarthritic Articular Cartilage", J. Clin. Invest., Vol. 99, No. 7, April 1997, pp.1534-1545.	
TNT	✓	Hirota, et al, "Novel Synthesis of Pyrido[3,4-d]Pyrimidines, Pyrido[2,3-d]-Pyrimidines, and Quinazolines Via Palladium-Catalyzed Oxidative Coupling", Heterocycles, Vol. 37, No. 1, 1994, pp.563-570.	

Examiner Signature		Date Considered	12/1/04
--------------------	---	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.